

## Product datasheet for **MG227635**

### **Krt1 (NM\_008473) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt1 (NM_008473) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Krt1
Synonyms:	Krt-2.1; Krt2-1; Krt86
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227635 representing NM\_008473  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCTACAGTGTAGCTCCAGGTCCTGTGCCGGTGGCGGTGGCAGCAGGAACCTCAGCTCAGGCT  
 CTGCTGGCCTAGTCAGCTTCCAGCGCAGATCCACCAGCAGCTCTATGCGCCGCAGCGGTGGAGGTGGTGG  
 TGGGAGATTTTCAGGAGGAGGCTTCTGTGGGAGTTCTGGTAGTGGCTTTGGAAGTAAGAGTCTTATGAAC  
 CTTGGAGGCGGTAGGAGCATCTCCAAGAGTGTGGCTGGAGGTGGTGGCAGCTTCTGTGGTGGCTTTGGGG  
 GTGGCAGCTACGGCGGTGGTGGCTTTGGGGGTGGCAGCTACGGCGGTGGTGGCTTTGGGGGTGGCAGCTT  
 CGGCGGTGGTGGCTTTGGAGGGAGTGGTTTTGGCGGAGGTCTTGGTGGTGGTGGTGGTTTTGGTAGTGA  
 GGTGGTTTTGGTGGTGGTAGATTTGGTAGTATGGGGCCTGTCTGTCCCCCTGGTGGCATCCAGGAAGTGA  
 CCATCAACCAAAGCCTTCTGCAACCCCTCAACGTTGAGGTTGACCCTCAGATTCAAAAAGTGAAGTCTCA  
 GGAGAGAGCAGATCAAGTCACTCAATGACAAGTTTGCCTCCTCATCGACAAGGTGCGCTTCTAGAG  
 CAACAAAACCAGGTGCTACAAACCAAATGGGAGCTGCTGCAGCAGGTAGACACCACAACCCGGACCCAAA  
 ACTTAGACCCTTTTTTTGAAGTATATCAGCATCCTCAGAAGGAAGGTGGACTCGCTGAAGAGTGACCA  
 GTCACGGATGGATTCTGAGCTGAAGAACATGCAAGACCTGGTGGAAAGGTACAGGACCAAGTACGAGGAT  
 GAAATCAACAAGAGGACCAACGCAGAGAATGAGTTCGTGACCACTAAGAAGGATGTGGATTACAGTTACA  
 TGACCAAAGTTGAGCTTCCAGGCCAAGGCAGATGCCCTCCAGCAAGACATTGACTTCTTCTGCACTCTA  
 CCAATGGAAATGTCTCAGATGCAAACTCAAATCAGCGAAACCAATGTTGTCCTGTCATGGACAACAAC  
 CGCAGTTTGGATCTGGATGGCATCATCTCGGAAGTCAAGGCCAGTATGATAGCATTGCCAGAGGAGCA  
 AGGCTGAAGCTGAGACCTTTTACCAGAGCAAGTACGAAGAGCTGCAGATCACTGCTGGCAAACATGGAGA  
 CAGTGTGAGAAATACCAAGATGGAGATTTCTGAGCTGAATCGAATGATCCAGAGACTTCGATCTGAAATT  
 GATGGTTGCAAGAAGCAGATCTCCCAAATACAGCAGAACATCAATGATGCTGAGCAGCGTGGTGAAGAA  
 CACTCAAAGATGCCCAGAACAAGCTGAATGAGATAGAGGATGCATTGTCGCAATGCAAGGAGGATCTTGC  
 CAGATTGCTGCGTGACTTCCAGGAGCTGATGAACACTAAGCTGGCCCTGGACATGGAGATTGCCACATAC  
 AAGAACTTCTGGAAGGAGAGGAGATCAGGATGTCTGGAGAGTGCCTCCCAACGTGAGCGTGTCCGGTGA  
 GCACCAGCCACACCAGCATGAGCGGAAGCAGTAGCCGAGGCGGCGGCAGCGGCGGCAGATACGGAGG  
 CGGTGGCAGTTATGGCGGCGGCTCTGGAGGCGGCAGCTACGGCGGCAGTCTGGAGGCGGAGGCAGTGGT  
 GGCAGCTACGGCGGCGGCTCCGAGGCGGCAGCTACGGCGGCGGCTCCGAGGCGGCAGCAGTGGAAAGCC  
 ACAGAGGTGGCTCTGGAGGGGGCGGTGGCAGCTCCGAGGCGAGCTACGGTGGCTCCTCTGGCGGAGGCCG  
 GGGAGGATCCAGCTCAGGTGGCGGTGGCGTTAAGTCTCTGTCAGTTCTACCGTGAAGTTTGTTCACC  
 AGTTACTCCCAGGGACCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG227635 representing NM\_008473  
 Red=Cloning site Green=Tags(s)

MSLQCSSRSLCRGGGSRNFSSGSAGLVSFQRRSTSSSMRRSGGGGGGRFSGGGFCGSSGSGFGSKSLMN  
 LGGGRSISKVAVGGGSGFCGGFGGGSGGGGFGGGGFGGGGFGGGGFGGSGFGGGLGGGGFGSG  
 GGFGGGRFGSMGPVCPGGIQEVTINQSLQLPLNVEVDPQIQKVKSQEREQIKSLNDFKASFIDKVRFL  
 QQNQVLQTKWELLQQVDTTTRTQNLDPFFENYISILRRKVDLSKSDQSRMDELKNNQDLVEEYRTKYED  
 EINKRTNAENEFVTIKKDVDSAYMTKVELQAKADALQQDIDFFSALYQMEMSQMQTQISETNVVL SMDNN  
 RSLDLDDGIISEVKAQYDSCQRSKAEAEIFYQSKYEELQITAGKHGDSVRNTKMEISELNRMIQRLRSEI  
 DGCKKQISQIQQNINDAEQRGEKALKDAQNKLNEIEDALSQCKEDLARLLRDFQELMNTKLALDMEIATY  
 KKLLEGEIIRMSGECTPNVSVSVSTSHTSMSGSSSRGGSGGGRYGGGSGGGSGGGSGGGSGGGSGG  
 GSYGGGSGGGSGGGSGGSSGSHRGGSGGGGSSGSGSYGGSSGGGRGGSSSGGGVKSSTVKFVST  
 SYSRGTK

**TRTRPLE** - GFP Tag - V

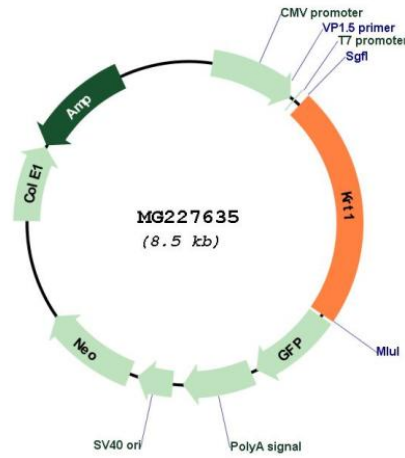
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_008473

ORF Size: 1911 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008473.2</a> , <a href="#">NP_032499.2</a>
<b>RefSeq Size:</b>	2462 bp
<b>RefSeq ORF:</b>	1914 bp
<b>Locus ID:</b>	16678
<b>UniProt ID:</b>	<a href="#">P04104</a>
<b>Cytogenetics:</b>	15 57.06 cM
<b>Gene Summary:</b>	May regulate the activity of kinases such as PKC and SRC via binding to integrin beta-1 (ITB1) and the receptor of activated protein C kinase 1 (RACK1). In complex with C1QBP is a high affinity receptor for kininogen-1/HMWK (By similarity).[UniProtKB/Swiss-Prot Function]